

Title (en)

Dielectric filter, dielectric duplexer, and communication apparatus

Title (de)

Dielektrisches Filter, dielektrischer Duplexer und Kommunikationsgerät

Title (fr)

Filtre diélectrique, duplexeur diélectrique et dispositif de communication

Publication

**EP 1024547 A2 20000802 (EN)**

Application

**EP 00100433 A 20000110**

Priority

JP 1976799 A 19990128

Abstract (en)

There is disclosed a dielectric filter comprising: an attenuation band in proximity to a pass band; a threshold-frequency position (B) of a determined maximum insertion loss being arranged close to a shoulder portion of a waveform exhibiting pass characteristics in which insertion losses increase in a region from the pass band to the attenuation band; temperature characteristics of a dielectric material being determined in such a manner that the shoulder portion moves toward the attenuation-band direction according to an increase and decrease in temperature. In the above dielectric filter, the deterioration of insertion-loss characteristics with respect to temperature changes is improved so that good characteristics are exhibited over a wide range of temperatures. <IMAGE>

IPC 1-7

**H01P 1/205**; **H01P 1/213**

IPC 8 full level

**H01P 1/205** (2006.01); **H01P 1/213** (2006.01); **H01P 7/10** (2006.01)

CPC (source: EP KR US)

**H01P 1/2056** (2013.01 - EP US); **H01P 1/213** (2013.01 - KR); **H01P 1/2136** (2013.01 - EP US)

Cited by

EP1434346A1; US6989723B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 1024547 A2 20000802**; **EP 1024547 A3 20020327**; **EP 1024547 B1 20080116**; CN 1187864 C 20050202; CN 1264186 A 20000823; DE 60037770 D1 20080306; DE 60037770 T2 20090115; JP 2000223908 A 20000811; JP 3468143 B2 20031117; KR 100319812 B1 20020109; KR 20000057794 A 20000925; US 6411177 B1 20020625

DOCDB simple family (application)

**EP 00100433 A 20000110**; CN 00101815 A 20000128; DE 60037770 T 20000110; JP 1976799 A 19990128; KR 20000003153 A 20000124; US 49356100 A 20000128